

MONTHLY REPORT

1 August - 31 August 1957

MATERIEL SUPPORT BRANCH
Engineering Division

I. PROJECTS AND ACTIVITIES

1. BRANCH

a. Several internal discussions have been held regarding possible redesignations and/or consolidation of the various memorandum receipt accounts within the Office of Communications. Experience has shown that the existing M/R accounts do not, from a supply management standpoint, provide the necessary controls that a responsible officer must have over the location and use of property for which he is responsible.

b. Another problem which is confronting us and for which a thorough review of existing procedures must be made, is that the ever increasing number of new type equipments and associated components which are being procured, stored and issued to support R&D, SPD, systems such as systems 1&2, AS-4, CS-3A, etc., teletype, and cryptographic electronics equipment, brings us into a new era of communications support activity. The proper identifications of special components for purpose of identifying parts peculiar, parts common, standardization, elimination of needless duplication, assignment of stock numbers, etc., is becoming more and more backlogged. The proper identification and procurement of hundreds (perhaps thousands) of new parts needed to properly support these new equipments has not been undertaken, nor is the information needed to do the job available in many instances. In the past, quantity purchases and the necessary lag in time to get equipment to the field allowed for the "behind the scenes" MSB functions to be accomplished with acceptable accuracy and within time limitations. However, this new and highly specialized equipment is often in the field before MSB is aware of its existence. Again, identification of spare parts and equipment is hampered by lack of special detailed information as to original source of procurement, security involved, special technical information needed to properly identify and standardize on spare parts, etc. There is no cause for panic-----yet, however, an efficient program to support our new era of activity will of necessity be slow in becoming a reality. One of the first determinations to be made is whether the Office of Communications desires a centralized overseas support unit, or a decentralized program with each Headquarters Division maintaining their own physical stock of parts peculiar to support the requirements of Communications on a worldwide basis (i.e. OC-S for crypto machines, OC-E/IMB for teletype, OC-SPD for their special equipment, OC-E/R&D for RS and other lines, and MSB for standard old line equipment).

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Although there seems to be merit for either, in the interest of good management, a centralized activity appears desirable, an activity geared to handle routine and crash requirements irregardless of source or nature of equipment.

c. Both of the foregoing topics will be a "continuing study" by this office.

2. LIAISON

a. Completed 17 liaison tasks for OC as follows:

OC-E/SEB ----- 4	OC-SPD/EA ----- 2
OC-E/IMB ----- 1	OC-SPD/AF ----- 3
OC-E/R&D ----- 3	OC-SPD-SA ----- 1
OC-E/MSB ----- 3	

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b. In cooperation with [] of OC/CFB and personnel of the Agency central mail room, established a mailing code for use by the OC-E Technical Liaison Officer at trade shows and technical meetings. This code eliminates use of the word "communications" and/or the true name of the liaison officer in the regular Agency mailing address, yet assures delivery of mail from non-Agency sources directly to the technical liaison office. An employee suggestion was submitted recommending the Agency establish an organization-wide mailing code similar to that utilized by Department of the Navy and other government organizations.

c. Attended the ONR sponsored TAC meeting at Stanford University 15 and 16 August. This meeting consisted of a review of the pure and applied electronic research activities at Stanford University during the past 12 months. Considerable information of particular interest to SP Division was obtained.

d. Conferred with [] Warehouse on 19 August, and made a brief informal inspection of the T&I area. During the afternoon of the 19th, accompanied [] for a visit to [] where we met [] and conferred with [] personnel regarding the SP-600 receiver rehabilitation contract. [] is reporting in considerable detail on this contract.

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e. Twenty through twenty-three August was devoted to attending the WESCON IRE/WCEMA Western Electronic Show and Convention held at the Cow Palace, San Francisco. This convention proved to be the best organized and easiest to work of any of the recent large trade shows, primarily because all technical sessions and product exhibits were held under one roof. Special arrangements were made with the WESCON public relations group to obtain copies of the majority of the papers presented at the technical sessions. These papers have been received in the OC-E Liaison Office and will be available for perusal within a few days.

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3. [] SECTION

a. The fiscal year 1958 "Phased Procurement Program" is being implemented at a slow rate until such time as this Section is informed of the amount of funds which have been approved against the budget submitted. To date, \$134,642.54 has been committed for procurement of equipment and parts for general stock. In addition, \$432,474.30 has been committed for procurement (for stock) of ELINT type material.

b. Completed action requesting OL to effect pick-up (for stock) of fifty (50) each Ampex Recording Systems and twenty-seven (27) each Equipment Racks, which were turned over to the Office of Communications by FI/Division D. At the request of SPD, the systems were broken down and arrangement made to stock the material by subassemblies. Logistics has not yet completed its part of the action needed to reflect the material in stock. Actual condition of the recording equipment has not yet been determined. However, in order to expedite picking up this material in stock, SPD requested that it officially be picked up and classified in C-3 condition. It was pointed out to SPD that this was not standard procedure; however, [] of SPD/AF agreed that in the event that there arose a crash requirement for issue of this equipment to other than his project, he would personally send a technician to the [] to repair (if necessary) this equipment, thereby facilitating immediate issue from stock.

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c. After several months of coordination with the cognizant elements of OC, and in some cases the DDP/Materiel Board, concurrence was received to dispose of a considerable number of Obsolete and/or Surplus Communications equipment. As a result, action has been initiated and forwarded to the Office of Logistics requesting that forty-six (46) different types of equipments be officially classified as Obsolete. In addition, two separate memoranda have been forwarded to D/CO for signature requesting the Office of Logistics to initiate disposal action of this equipment. This action will result in disposal of equipment having a current book value of approximately \$130,517.40. Since the beginning of this Program, approximately 18 months ago, OC has requested disposal of Obsolete and/or Surplus equipment having an estimated book value of \$991,183.42 and representing 7328 individual items. These figures represent disposal of major and/or special equipment [] It does not include disposal of spare parts, etc. In addition, approximately \$43,000.00 worth of RS-51 equipment is currently being coordinated with DDP for their concurrence in reclassifying the equipment Obsolete and Surplus.

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d. All paper work necessary has been initiated for assembly of 280 each kits for modification of the URT-11 Transmitter. In addition, enough components and parts have been procured for stock for modification of an additional 220 transmitters. Necessary directives have been issued to all T&I activities in the ZI to implement modification of 180 URT-11's in ZI stock. T&I reports that actual modification has begun and that a small number has been completed.

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e. Final action has been completed on the breakdown of fourteen (14) each HT-4 Operating Spare Parts Kits for the purpose of stocking badly needed individual components.

f. Research and analysis for the purpose of identification of equipments, components, description writing, and assignment of stock numbers, etc. on the ELINT CS-3A System is just about completed. Proper identification of this equipment for the purpose indicated above started on a piecemeal basis approximately 1 year ago. With the completion of the [] portion of this contract approaching, additional work was intensified for the past several weeks in order to meet the 15 September dead-line date established by SPD. Due to the many technical changes which were made from time to time in this contract, it was necessary to hold several conferences with OC-E and [] representatives, both at Headquarters and at the contractor's plant. In many instances, it was discovered that additional drawings were required to complete our records. In other instances, it was discovered that actual technical changes had not been recorded, or had been improperly recorded on the drawings. While many of these problems have been solved, there are still a few remaining items needing changes which we hope to rectify or correct in another conference with [] The complete review of drawings, schematics, parts lists, bill of material, etc. on-hand for the CS-3A has been completed. As a result, it was necessary to work out descriptions on 136 subassemblies, cables, etc. and request assignment from OL of 136 new stock numbers. Barring any unforeseen circumstances, the 15 September dead line set for completion of necessary MSB/MCS functions on this Project will be met. It has been estimated, to date, that approximately 200 MSB man-hours have been devoted to this Project.

g. Additional preparatory analysis has been accomplished in the review of the "Capacitor Standardization Program." It is hoped that the final overall analysis and review of components can be accomplished during the next reporting period in order to complete Phase 2 of purification and standardization on this program.

h. Further identification of group 5950 (transformers, coils, etc.) plus communications from the field areas, has uncovered several errors and discrepancies affecting MPL's and stock items for support of the HT-4's and HT-5's in the G, H, and I series. Results of the information gathered and analyzed will be disseminated to all using elements as soon as it has been correlated.

i. The "Identification, Inspection, and Packaging Program" for small parts (expendable, etc.) is continuing satisfactorily. To date, the number of line items identified and errors found are as follows:

<u>Group</u>	<u>No. Items</u>	<u>Discrepancies</u>	<u>% of Error</u>
5355 (Knobs, etc.)	60	1	00.11%
5905 (Resistors)	1000	330	33.0 %

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<u>Group</u>	<u>No. Items</u>	<u>Discrepancies</u>	<u>% of Error</u>
5910 (Condensers)	828	294	35.0 %
5920 (Fuses)	140	71	50.0 %
5930 (Switches)	210	55	26.1 %
5935 (Connectors)	334	107	30.0 %
5940 (Spade Lug, etc.)	89	30	33.7 %
5945 (Relays, etc.)	81	25	30.8 %
5970 (Insulators)	129	29	22.5 %
6240 (Pilot lights)	196	45	23.0 %
5950 (Transformers, coils, etc.)	89	16	18.0 %
Total	3156	1003	Average % of Error 27.57%

j. At the request of Logistics and with the concurrence of Chief, OC-E, MSB personnel have started a pre-inventory technical identification of all Communications material (bulk type) in the [] Depot. [] was assigned to the Depot for this purpose 20 August on a full-time basis. In addition, assistance is currently being given by personnel of I&M Branch and SEB. While it is impossible to predict the exact number of Engineering Division man-hours which will be needed to complete this Program, (including actual inventory), an educated "guess-ti-mate" is approximately 700 man-hours.

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k. Ten (10) items of an expendable nature (capacitors, meters, etc.) have been officially reclassified to the "Limited Standard" category. In addition, a total of thirty-nine (39) stock numbers have been assigned to new and/or reidentified material for stock. This includes new cable harnesses for the CS-3A System Electron Tubes, Monitoring Panels, etc.

l. The MC Section has reviewed, during this reporting period, 272 individual requisitions totaling 1,581 line items. Review was for the purpose of posting, technical compliance, and related materiel control functions.

4. [] SECTION

August was the big vacation month for this section. At least one log officer was on leave all month. However, during this period we processed 203 requisitions consisting of 1150 line items and originated 130 dispatches to overseas areas.

a. Vehicle Actions

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c. In addition, routine clerical, administrative, and other library duties were performed, such as cataloging and classification of publications, analysis and dissemination of intelligence reports, typing memos, dispatches, reports, requisitions, reproduction requests, etc.

6. TEST AND INSPECTION SECTION

a. The following figures represent the quantity of material processed by the Test and Inspection Section.

	HQ	ECW	BRW	TOTAL
Receiving:				
Orders	111	32	22	165
Items	304	76	54	434
Pieces	7581	365	2603	10,549
Cargo:				
Vouchers	169	1	31	201
Items	670	1	48	719
Pieces	13,623	1	2050	15,674
PTI's:				
Vouchers	7			7
Items	33			33
Pieces	165			165
Job Orders:				
Orders	6			6
Items	7			7
Pieces	39			39

(Job Orders are written by the Supply Div/OL, at the request of the ☐ Section, as time and material are available to condition to C-1 items of equipment held by the Supply Division in C-3 condition. Requests to the ☐ Section to condition specific C-3 equipment for requisitions are also presented in Job Order form.)

b. In addition to the above, one (1) repair of equipment for other Sections was done. A URT-11 transmitter was repaired and modified (3) for TSS (Lab.).

c. Ten (10) URT-11 transmitters from stock, including mobile stations, were modified in accordance with MWO's 10, 19, and 20 and tested. This work will not be covered by the usual report on Job Orders.

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